

US005975791A

United States Patent [19]

McCulloch

[11] Patent Number:

5,975,791

[45] **Date of Patent:**

Nov. 2, 1999

[54] VEHICLE SECURITY GATE APPARATUS AND METHOD OF OPERATING SAME

[76] Inventor: G. Wallace McCulloch, 1220 Santa

Cruz Ave., Titusville, Fla. 32780

57

[22] Filed: Mar. 4, 1997

[51] **Int. Cl.**⁶ **E01F 13/06**; E01F 13/08

[52] **U.S. Cl.** **404**/6; 49/33; 49/49; 49/131

[56] References Cited

U.S. PATENT DOCUMENTS

4,576,509	3/1986	Beaty, Sr
4,647,246	3/1987	Brink et al
4,759,655	7/1988	Gorlov 404/
4,818,137	4/1989	Gorlov .
4,826,349	5/1989	Nasatka .
4,828,424	5/1989	Crisp, Sr
4,850,737	7/1989	Nasatka et al
4,861,185	8/1989	Eikelenboon .
4,923,327	5/1990	Gorlov .
5,026,203	6/1991	Gorlov .

5,549,410	8/1996	Beryozkin et al	404/6
5,704,730	1/1998	Burton-Chambers	404/6

Primary Examiner—James A. Lisehora Attorney, Agent, or Firm—Allen, Dyer, Doppelt, Milbrath & Gilchrist, P.A.

[57] ABSTRACT

A vehicle security gate apparatus and methods are provided for inhibiting undesired access to a protected area. The vehicle security gate apparatus preferably has a barricade adapted to be positioned adjacent a roadway to thereby block vehicle passage along the roadway into an area desired to be protected. The apparatus also preferably has a barricade rotating mount connected to the barricade for rotating the barricade about a predetermined axis so that the barricade rotates about the predetermined axis between a vehicle passage position which allows a desired vehicle to readily pass along the roadway into the protected area, a vehicle blocking position which blocks the roadway so as to inhibit an undesired vehicle from readily entering into the protected area, and a vehicle arresting position which arrests an undesired vehicle responsive to an attempt by the undesired vehicle to ram the barricade when the barricade is positioned in the vehicle blocking position.

22 Claims, 4 Drawing Sheets

